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SEQUENCE LISTING

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cca Pro	ctg Leu	ctg Leu	tac Tyr 775	ctg Leu	ctc Leu	ttc Phe	aac Asn	ccc Pro 780	cac His	ttc Phe	cgg Arg	gat Asp	gac Asp 785	ctt Leu	cgg Arg	2407
cgg	ctt Leu	cgg Arg 790	ccc Pro	cgc Arg	gca Ala	GJ À âââ	gac Asp 795	tca Ser	ggg	ccc Pro	cta Leu	gcc Ala 800	tat Tyr	gct Ala	gcg Ala	2455
					aag Lys											2503

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cca gag ggg aac cac ttt ggg aac ccc caa ccc tcc atg gat gga gaa Pro Glu Gly Asn His Phe Gly Asn Pro Gln Pro Ser Met Asp Gly Glu 870 875 880	2695
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His Leu Ser His Ile Pro Gly Gln Ala Phe Ser Gly Leu Tyr Ser Leu 50 55 60

Lys Ile Leu Met Leu Gln Asn Asn Gln Leu Gly Gly Ile Pro Ala Glu 65 70 75 80

Ala Leu Trp Glu Leu Pro Ser Leu Gln Ser Leu Arg Leu Asp Ala Asn 85 90 95

Leu Ile Ser Leu Val Pro Glu Arg Ser Phe Glu Gly Leu Ser Ser Leu 100 105 110

Arg His Leu Trp Leu Asp Asp Asn Ala Leu Thr Glu Ile Pro Val Arg 115 120 125

Ala Leu Asn Asn Leu Pro Ala Leu Gln Ala Met Thr Leu Ala Leu Asn 130 135 140

Arg Ile Ser His Ile Pro Asp Tyr Ala Phe Gln Asn Leu Thr Ser Leu 145 150 155 160

Val Val Leu His Leu His Asn Asn Arg Ile Gln His Leu Gly Thr His 165 170 175

Ser Phe Glu Gly Leu His Asn Leu Glu Thr Leu Asp Leu Asn Tyr Asn 180 185 190

Lys Leu Gln Glu Phe Pro Val Ala Ile Arg Thr Leu Gly Arg Leu Gln 195 200 205

Glu Leu Gly Phe His Asn Asn Asn Ile Lys Ala Ile Pro Glu Lys Ala 210 215 220

Phe Met Gly Asn Pro Leu Leu Gln Thr Ile His Phe Tyr Asp Asn Pro 225 230 235 240

Ile Gln Phe Val Gly Arg Ser Ala Phe Gln Tyr Leu Pro Lys Leu His 245 250 255

Thr Leu Ser Leu Asn Gly Ala Met Asp Ile Gln Glu Phe Pro Asp Leu

270

-7-

265

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Arg Leu Ala Val Trp Ala Ile Val Leu Leu Ser Val Leu Cys Asn Gly 515 520 525

Leu Val Leu Leu Thr Val Phe Ala Gly Gly Pro Val Pro Leu Pro Pro 530 535 540

Val Lys Phe Val Val Gly Ala Ile Ala Gly Ala Asn Thr Leu Thr Gly 545 550 560

Ile Ser Cys Gly Leu Leu Ala Ser Val Asp Ala Leu Thr Phe Gly Gln 565 570 575

Phe Ser Glu Tyr Gly Ala Arg Trp Glu Thr Gly Leu Gly Cys Arg Ala 580 590

Thr Gly Phe Leu Ala Val Leu Gly Ser Glu Ala Ser Val Leu Leu Leu 595 600 605

Thr Leu Ala Ala Val Gln Cys Ser Val Ser Val Ser Cys Val Arg Ala 610 615 620

Tyr Gly Lys Ser Pro Ser Leu Gly Ser Val Arg Ala Gly Val Leu Gly 625 630 635 640

Cys Leu Ala Leu Ala Gly Leu Ala Ala Ala Leu Pro Leu Ala Ser Val 645 650 655

Gly Glu Tyr Gly Ala Ser Pro Leu Cys Leu Pro Tyr Ala Pro Pro Glu 660 665 670

Gly Gln Pro Ala Ala Leu Gly Phe Thr Val Ala Leu Val Met Met Asn 675 680 685

Ser Phe Cys Phe Leu Val Val Ala Gly Ala Tyr Ile Lys Leu Tyr Cys 690 695 700

Asp Leu Pro Arg Gly Asp Phe Glu Ala Val Trp Asp Cys Ala Met Val 705 710 715 720

Arg His Val Ala Trp Leu Ile Phe Ala Asp Gly Leu Leu Tyr Cys Pro

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725 730 735

Val Ala Phe Leu Ser Phe Ala Ser Met Leu Gly Leu Phe Pro Val Thr 740 745 750 745

Pro Glu Ala Val Lys Ser Val Leu Leu Val Val Leu Pro Leu Pro Ala

Cys Leu Asn Pro Leu Leu Tyr Leu Leu Phe Asn Pro His Phe Arg Asp 770 775 780

Asp Leu Arg Arg Leu Arg Pro Arg Ala Gly Asp Ser Gly Pro Leu Ala

Tyr Ala Ala Ala Gly Glu Leu Glu Lys Ser Ser Cys Asp Ser Thr Gln

Ala Leu Val Ala Phe Ser Asp Val Asp Leu Ile Leu Glu Ala Ser Glu 820 825 830

Ala Gly Arg Pro Pro Gly Leu Glu Thr Tyr Gly Phe Pro Ser Val Thr 835 840 845

Leu Ile Ser Cys Gln Gln Pro Gly Ala Pro Arg Leu Glu Gly Ser His

Cys Val Glu Pro Glu Gly Asn His Phe Gly Asn Pro Gln Pro Ser Met

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Gly Leu Ser Gly Gly Gly Phe Gln Pro Ser Gly Leu Ala Phe Ala 905

Ser His Val

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His Leu Ser His Ile Pro Gly Gln Ala Phe Ser Gly Leu Tyr Ser Leu 30 35 40 45

Lys Ile Leu Met Leu Gln Asn Asn Gln Leu Gly Gly Ile Pro Ala Glu 50 55 . 60

Ala Leu Trp Glu Leu Pro Ser Leu Gln Ser Leu Arg Leu Asp Ala Asn 65 70 75

Leu Ile Ser Leu Val Pro Glu Arg Ser Phe Glu Gly Leu Ser Ser Leu 80 90

Arg His Leu Trp Leu Asp Asp Asn Ala Leu Thr Glu Ile Pro Val Arg 95 100 105

Ala Leu Asn Asn Leu Pro Ala Leu Gln Ala Met Thr Leu Ala Leu Asn 110 115 120 125

Arg Ile Ser His Ile Pro Asp Tyr Ala Phe Gln Asn Leu Thr Ser Leu 130 135 140

Val Val Leu His Leu His Asn Asn Arg Ile Gln His Leu Gly Thr His 145 150 155

Ser Phe Glu Gly Leu His Asn Leu Glu Thr Leu Asp Leu Asn Tyr Asn 160 165 170

Lys Leu Gln Glu Phe Pro Val Ala Ile Arg Thr Leu Gly Arg Leu Gln 175 180 185

Glu Leu Gly Phe His Asn Asn Ile Lys Ala Ile Pro Glu Lys Ala

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Thr	Leu	Ser 240	Leu	Asn	Gly	Ala	Met 245	Asp	Ile	Gln	Glu	Phe 250	Pro	Asp	Leu
Lys	Gly 255	Thr	Thr	Ser	Leu	Glu 260	Ile	Leu	Thr	Leu	Thr 265	Arg	Ala	Gly	Ile
Arg 270	Leu	Leu	Pro	Ser	Gly 275	Met	Cys	Gln	Gln	Leu 280	Pro	Arg	Leu	Arg	Val 285
Leu	Glu	Leu	Ser	His 290	Asn	Gln	Ile	Glu	Glu 295	Leu	Pro	Ser	Leu	His 300	Arg
Cys	Gln	Lys	Leu 305	Glu	Glu	Ile	Gly	Leu 310	Gln	His	Asn	Arg	Ile 315	Trp	Glu
Ile	Gly	Ala 320	Asp	Thr	Phe	Ser	G1n 325	Leu	Ser	Ser	Leu	Gln 330	Ala	Leu	Asp
Leu	Ser 335	Trp	Asn	Ala	Ile	Arg 340	Ser	Ile	His	Pro	Glu 345	Ala	Phe	Ser	Thr
Leu 350	His	Ser	Leu	Val	Lys 355	Leu	Asp	Leu	Thr	Asp 360	Asn	Gln	Leu	Thr	Thr 365
Leu	Pro	Leu	Ala	Gly 370	Leu	Gly	Gly	Leu	Met 375	His	Leu	Lys	Leu	Lys 380	Gly
Asn	Leu	Ala	Leu 385		Gln	Ala	Phe	Ser 390	Lys	Asp	Ser	Phe	Pro 395	Lys	Leu
Arg	Ile	Leu 400	Glu	Val	Pro	Tyr	Ala 405	Tyr	Gln	Cys	Cys	Pro 410	Tyr	Gly	Met
Cys	Ala 415	Ser	Phe	Phe	Lys	Ala 420	Ser	Gly	Gln	Trp	Glu 425	Ala	Glu	Asp	Leu

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Arg	Gln	Ala	Glu	Asn 450	His	Tyr	Asp	Gln	Asp 455	Leu	Asp	Glu	Leu	Gln 460	Leu
Glu	Met	Glu	Asp 465	Ser	Lys	Pro	His	Pro 470	Ser	Val	Gln	Cys	Ser 475	Pro	Thr
Pro	Gly	Pro 480	Phe	Lys	Pro	Суз	Glu 485	Tyr	Leu	Phe	Glu	Ser 490	Trp	Gly	Ile
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Val	ГÀЗ	Phe	Val	Val 530	Gly	Ala	Ile	Ala	Gly 535	Ala	Asn	Thr	Leu	Thr 540	Gly
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Phe	Ser	Glu 560	Tyr	Gly	Ala	Arg	Trp 565	Glu	Thr	Gly	Leu	Gly 570	Cys	Arg	Ala
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Tyr	Gly	Lys	Ser	Pro 610	Ser	Leu	Gly	Ser	Val 615	_	Ala	Gly	Val	Leu 620	-
Cys	Leu	Ala	Leu 625	Ala	Gly	Leu	Ala	Ala 630	Ala	Leu	Pro	Leu	Ala 635	Ser	Val
Gly	Glu	Tyr 640	Gly	Ala	Ser	Pro	Leu 645	Cys	Leu	Pro	Tyr	Ala 650	Pro	Pro	Glu
Gly	Gln	Pro	Ala	Ala	Leu	Gly	Phe	Thr	Val	Ala	Leu	Val	Met	Met	Asn

- 13 -

655 660 665 Ser Phe Cys Phe Leu Val Val Ala Gly Ala Tyr Ile Lys Leu Tyr Cys 670 685 685 Asp Leu Pro Arg Gly Asp Phe Glu Ala Val Trp Asp Cys Ala Met Val Arg His Val Ala Trp Leu Ile Phe Ala Asp Gly Leu Leu Tyr Cys Pro Val Ala Phe Leu Ser Phe Ala Ser Met Leu Gly Leu Phe Pro Val Thr Pro Glu Ala Val Lys Ser Val Leu Leu Val Val Leu Pro Leu Pro Ala Cys Leu Asn Pro Leu Leu Tyr Leu Leu Phe Asn Pro His Phe Arg Asp 750 765 760 765 Asp Leu Arg Arg Leu Arg Pro Arg Ala Gly Asp Ser Gly Pro Leu Ala 770 775 780 Tyr Ala Ala Ala Gly Glu Leu Glu Lys Ser Ser Cys Asp Ser Thr Gln Ala Leu Val Ala Phe Ser Asp Val Asp Leu Ile Leu Glu Ala Ser Glu Ala Gly Arg Pro Pro Gly Leu Glu Thr Tyr Gly Phe Pro Ser Val Thr Leu Ile Ser Cys Gln Gln Pro Gly Ala Pro Arg Leu Glu Gly Ser His Cys Val Glu Pro Glu Gly Asn His Phe Gly Asn Pro Gln Pro Ser Met Asp Gly Glu Leu Leu Arg Ala Glu Gly Ser Thr Pro Ala Gly Gly Gly Leu Ser Gly Gly Gly Gly Phe Gln Pro Ser Gly Leu Ala Phe Ala

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gac Asp 20	ctc Leu	agc Ser	atg Met	aac Asn	aac Asn 25	ctc Leu	aca Thr	gag Glu	ctt Leu	cag Gln 30	cct Pro	ggc	ctc Leu	ttc Phe	cac His 35	15	51
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135

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Ser Phe Glu Gly Leu His Asn Leu Glu Thr Leu Asp Leu Asn Tyr Asn

Lys Leu Gln Glu Phe Pro Val Ala Ile Arg Thr Leu Gly Arg Leu Gln

Glu Leu Gly Phe His Asn Asn Ile Lys Ala Ile Pro Glu Lys Ala

Phe Met Gly Asn Pro Leu Leu Gln Thr Ile His Leu Tyr Asp Asn Pro

Ile Gln Phe Val Gly Arg Ser Ala Phe Gln Tyr Leu Pro Lys Leu His

Thr Leu Ser Leu Asn Gly Ala Met Asp Ile Gln Glu Phe Pro Asp Leu

Lys Gly Thr Thr Ser Leu Glu Ile Leu Thr Leu Thr Arg Ala Gly Ile 280

Arg Leu Leu Pro Ser Gly Met Cys Gln Gln Leu Pro Arg Leu Arg Val

Leu Glu Leu Ser His Asn Gln Ile Glu Glu Leu Pro Ser Leu His Arg

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Ala Leu Trp Glu Leu Pro Ser Leu Gln Ser Leu Arg Leu Asp Ala Asn

Leu Ile Ser Leu Val Pro Glu Arg Ser Phe Glu Gly Leu Ser Ser Leu

Arg His Leu Trp Leu Asp Asp Asn Ala Leu Thr Glu Ile Pro Val Arg

Ala Leu Asn Asn Leu Pro Ala Leu Gln Ala Met Thr Leu Ala Leu Asn

Arg Ile Ser His Ile Pro Asp Tyr Ala Phe Gln Asn Leu Thr Ser Leu

Val Val Leu His Leu His Asn Asn Arg Ile Gln His Leu Gly Thr His

Ser Phe Glu Gly Leu His Asn Leu Glu Thr Leu Asp Leu Asn Tyr Asn

Lys Leu Gln Glu Phe Pro Val Ala Ile Arg Thr Leu Gly Arg Leu Gln

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Phe Met Gly Asn Pro Leu Leu Gln Thr Ile His Leu Tyr Asp Asn Pro 210 215 220

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